

DK-LOK® Ball and Plug Valves

V23 Series Plug Valves



 Working Pressure: 3,000 psig Stainless Steel and Brass • DK-LOK® 1/8" to 1/2" OD. • Pipe Thread 1/8" to 1/2"

Lowest Dead Volume Ball Valves

Switching 5-way Ball Valves

• Pipe Thread 1/8" to 1/2"

Working Pressure: 2,500 psig

Forward Flow Throttling

V825 Series

 Working Pressure: 2,000 psig Stainless Steel and Brass • DK-LOK® 1/4" to 1" OD. • Pipe Thread 1/4" to 1"

V81 Series

V83 Series

Swing-Out Ball Valves

General Purpose Ball Valves

 2-way and 3-way Actuation Working Pressure: 3,000 psig Stainless Steel and Brass

V86 Series

• Pipe Thread 1/8" to 1/2"

High Pressure Ball Valves

V82 Series

Lowest Dead Volume Ball Valves

• DK-LOK® 1/16" to 3/4" OD.

VT86 Series

Trunnion Ball Valves

2-way On-Off Valves

Stainless Steel

3-way Switching Valves

• DK-LOK® 1/4" to 1/2" OD.

• Pipe Thread 1/8" to 1/4"

Working Pressure: 6,000 psig

Lowest Dead Volume Ball Valves

V824 Series

 Crossover 4-way Ball Valves • Working Pressure: 2,500 psig Stainless Steel • Pipe Thread 1/8" to 1/2"

• DK-LOK® 1/4" to 1/2" OD. • Pipe Thread 1/4" to 1/2" Vacuum and High Pressure **Application**

Stainless Steel

VM Series

Metering Valves

Working Pressure:

- 2,000 psig for VM1D Series

Stainless Steel and Brass

• DK-LOK® 1/16" to 3/8" OD.

Pipe Thread 1/8" to 1/4"

V103 Series

Toggle Valves

- 1,000 psig for VM3D/VM6D Series

• Panel mount with no handle removal.

• Working Pressure: 2,500 psig

V13 Series

Bellows Valves

Working Pressure: 5,000 psig

Integral Bonnet Needle Valves

DK-LOK® Bellows, Needle, and Toggle Valves & Manifolds

V15 Series

 Stainless Steel, Brass, and Exotic Alloys • DK-LOK® 1/8" to 3/4" OD. • Pipe Thread 1/8" to 1/2"

• Regulating / Vee / Soft Seat

Working Pressure: 6,000 psig

Acetal Replaceable Soft Seat

Straight-through Roddable Orifice

• Pipe Thread 1/4" to 3/4"

Stainless Steel

Rising Stem Plug Valves

V96 Series

• DK-LOK® 1/4" to 1" OD. • Pipe Thread 1/8" to 1" • Pipe Socket Weld 1/4" to 1/2" Non-rotating Globe Stem Tip

V46A Series

Hex. Body Needle Valves

• Working Pressure: 10,000 psig

Packing Adjustment Externally

• DK-LOK® 1/4" to 1/2" OD.

• Pipe Thread 1/4" to 3/4"

V46 / V56 Series

Instrument Manifolds

Stainless Steel and Carbon Steel

V16 Series

Severe Service Union Bonnet Valves

Working Pressure: 6,000 psig

Stainless Steel and Exotic Allovs

 Compact Design Vee Tip / Soft Seat

Stainless Steel

VB16 Series

Integral Bonnet Needle Valves

VG16 Series General Utility Service Needle Valves

Working Pressure: 6,000 psig

• DK-LOK® 1/4" to 1/2" OD.

• Pipe Thread 1/4" to 3/4"



 Working Pressure: 6,000 psig Stainless Steel and Carbon Steel

• Pipe Thread 1/4" to 1"

Compact and Sturdy Design

Stainless Steel

Working Pressure: 3,000 psig • Cracking Pressure: 3 - 600 psig

• DK-LOK® 1/4" 6mm, and 8mm OD. • Pipe Thread 1/8" to 1/2"

 Working Pressure: 6,000 psig • Working Pressure: 6,000 psig • Up to 482°C (900°F) • DK-LOK® 1/4" to 3/4" OD.

Filters

• Cracking Pressure: 50 - 6,000 psig • Set Pressure Range: • -28° to 204°C (-18° to 400°F)

 Stainless Steel with FKM Seals • DK-LOK® 1/4" to 1/2" OD. • Pipe Thread 1/4" to 1/2"

VTH86 Series Trunnion Ball Valves

Stainless Steel



2-way On-Off Valves 3-way Switching Valves • Working Pressure: 10,000 psig Stainless Steel • DK-LOK® 1/4" to 1/2" OD. • Pipe Thread 1/8" to 1/4" Seat Material: PEEK

VH86 Series Multi-Purpose Ball Valves



Working Pressure: 3,000 psig

• DK-LOK® 1/4" to 1" OD.

• Pipe Thread 1/8" to 1"

Stainless Steel and Carbon Steel

• 2-way Bi-directional Valves • 3-way Diverter Valves Working Pressure: 6,000 psig Stainless Steel • DK-LOK® 1/8" to 3/4" OD.

• Pipe Thread 1/4" to 1/2"

VH86 Series Valve with Actuator

2-way On-Off Valves

• 3-way Diverter Valves

• DK-LOK® 1/4" to 1" OD.

• Pipe Thread 1/4" to 1"

Working Pressure: 10,000 psig

Stainless Steel and Carbon Steel



 Pneumatic Actuator • 90 / 180 Degree Actuation Single and Double Return

V87 Series



• Up to 100°C (212°F) • DIN 1.4404, SS316L • DIN O.D 6mm ~ 38mm • Pipe Thread 1/8" ~ 1"

VCT86 Series

Trunnion Ball Valves

DIN Standard Ball Valves



• Up to 7,250 psi (500 bar)

Ball Valve to DIN Standard



 Working Pressure: 300 psig • Working Pressure: 3,500 psig

 Stainless Steel and Brass Stainless Steel and Brass • DK-LOK® 1/8" to 1/2" OD. • DK-LOK® 1/4" to 1/2" OD. • Pipe Thread 1/8" to 3/8" • Pipe Thread 1/4" to 3/8" • Instantly open and close the valve Instantly open and close the valve for sampling and testing equipment. with no o-ring, no packing, nor

VD3 Series Diaphragm Valves



• Working Pressure: 6,000 psig Stainless Steel and Carbon Steel • 2, 3, and 5 Valve as Standard Vertical Direct / Remote Mount Single / Double Flange Direct Mount

VYON Series

Cryogenic Needle Valves



 Working Pressure: 275 psig (20 bar) • Up to -196°C (-320°F) ~ 371°C (700°F) with Graphite Packing

• Screwed End: 3/8" ~ 1" • ASTM A351 CF3M and ASTM A351 CF8M

DK-LOK® CNG / NGV Valves

V86 Series CNG / NGV Ball Valves



 Working Pressure: 274 bar at 120°C Dynamic Seat Design • DK-LOK® 1/2" to 3/4" OD. • Pipe Thread 1/2" to 1"

V64 Series High Flow Relief Valves



 Working Pressure: 6,000 psig • Cracking Pressure: 15 - 5,500 psig • Pipe Thread 1/2" to 1" • Air, Gases, CNG, and Liquid • Orifice: 0.404" (10.26mm)

VCH86 Series **Alternative Fuel Service Ball Valves**



• 2-way On-Off Valves Working Pressure: 274 bar at 120°C • DK-LOK® 3/8" to 1" OD. • Pipe Thread 3/8" to 3/4" Dynamic Seat Design • Orifice: 0.472" (12.0mm)



 2-way On-Off Valves 3-way Switching Valves • Working Pressure: 274 bar at 120°C Stainless Steel • DK-LOK® 1/4" to 1/2" OD.

• Pipe Thread 1/8" to 1/4"

VBV Series **Bleed Valves**



 Working Pressure: 10,000 psig Stainless Steel and Carbon Steel • Male Pipe Thread 1/8" to 1/2" Vent the signal line pressure to atmosphere to assist in the calibration of control valves or

multi-valve manifolds.

VPV Series **Purge Valves**

DK-LOK® Bleed, Purge, Gauge Root, and Block & Bleed Valves



Working Pressure: 4,000 psig

bellows in the flow stream.

 Stainless Steel and Brass • DK-LOK® 1/8" to 1/2" OD. • Pipe Thread 1/8" to 1/2" For bleeding, venting, and draining of system fluids.

V46 Series **Gauge Root Valves**



• Working Pressure: 6,000 psig Stainless Steel and Carbon Steel • Pipe Thread 1/2" to 3/4"

 Valve for pressure gauge with vent port.

V46V2 Series

Block and Bleed Valves



• Working Pressure: 6,000 psig Stainless Steel

• Male to Female 1/2" NPT For bleeding, venting, and draining of system fluids.

DK-LOK® Check and Relief Valves

V33 Series **Poppet Check Valves**

• Pipe Thread 1/8" to 1"

In-Line Adjustable Check Valves

VDA33 Series



 Working Pressure: 3,000 psig · Working Pressure: 3,000 psig • Cracking Pressure: 1/3 - 100 psig Stainless Steel and Brass • DK-LOK® 1/8" to 1" OD. • Pipe Thread 1/4" to 1/2"

VL36 Series

Lift Check Valves

VP33 Series

One-Piece Check Valves

• Cracking Pressure: 1/3 - 25 psig • Stainless Steel and Brass

VH36 Series **High Pressure Check Valves**



• Working Pressure: 6,000 psig • Cracking Pressure: 1/3 - 25 psig • Cracking Pressure: 3 - 600 psig

 Stainless Steel • DK-LOK® 1/8" to 1" OD. • Pipe Thread 1/8" to 1"

V63 / V66 Series

Relief Valves

• Working Pressure: 3,000 psig

VA33 Series

One-Piece Adjustable Check Valves

 Stainless Steel • Pipe Thread 1/4" to 1/2"

V61 Series **Vent Relief Valves**



Working Pressure: 400 psig

0.5 - 150 psig (0.03 to 10.4 bar) •-54° to 204°C (-65° to 400°F)

 Stainless Steel and Brass • Pipe Thread 1/8" to 1"

DK-LOK® Filters and Excess Flow Valves

V73 / V76 Series

Double Block and Bleed Valves

DK-LOK® Valves for Offshore Platforms

MONO



·SS316 • Flange Size 1/2" to 2" (DN15 - DN50) Blowout Proof Valve Stem and Needle

Fire-tested to BS 6755 Part

• Class 150 - 2,500 to ASME B16 • Up to 204°C (400°F)

– PTFE Packing • Up to 454°C (850°F) Graphite Packing • Flange Size 1/2" to 2" (DN15 - DN50)

Flanges

• Class 150 - 2,500 to ASME B16. Working Pressure: • Up to 204°C (400°F)

- 6,000 psig for V76 Series - 3,000 psig for V73 Series Stainless Steel • DK-LOK® 1/8" to 1/2" OD.

• Pipe Thread 1/8" to 1/2"



VX36 Series



Working Pressure: 6,000 psig

• Up to 204°C (400°F) • DK-LOK® 1/4" to 1/2" OD.

• Pipe Thread 1/8" to 1/2" Designed to stop uncontrolled

release of system media.

VALVE PRODUCTS

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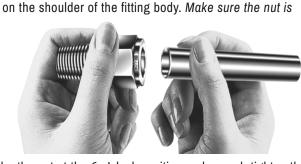




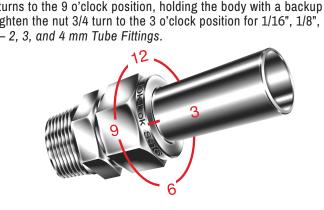


DK-LOK® Tube Fittings **Additional Products (cont.)** Tube to Male Pipe Tube to Female Pipe **Tube to AN Tube Tube to Weld End Spare Parts Tube to Tube Union Tube Stub Connector (cont.)** Male Connector Female Connector AN Union Gap Gauge Male Adapter Weld Connector DGV/DGB/DGC/DGG **DMC-N** DCF-N DAM-UO **DCW** Male Pipe Weld Elbow Union Elbow Male Connector Female Adapter AN Bulkhead Union Tube Depth Marking Tool Female Connector DMC-R DCF-R DAF-N DUBA DLW Union Tee Thermocouple Connector Male AN Adapter Gauge Connector Female Adapter Weld Connector Ferrule Set Pre-Swaging Unit DCF-GG DAF-R **DMAA DCSW** DFS DHS-2A Male Connector for Union Cross **Bonded Gasket Seal** Bulkhead Female Connector Female Adapter AN Adapter Weld Elbow Nut-Ferrule Set Pre-Swaging Unit DCBF-N **DAF-GR DLSW** DMC-G DFSN DES-1A Male Connector for Female Gauge Adapter Bulkhead Union Female Elbow Welding Bulkhead Union Front Ferrule Hand Tube Bender Metal Gasket **Tube to Non-Positionable O-Seal** DMC-GB, -G DLF-N **DAF-GG DHTB** O-Seal Straight Thread Back Ferrule **Bulkhead Retainer Bulkhead Male Connector** Female Run Tee Elbow Adapter Tube Cutter Connector Plug, Cap, Insert DTRF-N DTC DMCB-N DLA O-Seal Pipe Thread Bulkhead Elbow Union 45° Male Elbow Run Tee Adapter Female Branch Tee Tube Deburring Tool **Additional Products** DLBM Male Elbow Branch Tee Adapter Cap DC Fuse Plug Reducing Union Male Connector Single Ferrule Fitting **Tube Stub Connector** DLM-N DMCS-U DFA **DK-LOK® Z Series** Reducing Union Elbow Male Elbow Reducer Port Connector Vent Protector Designed and manufactured Tube to Positionable Straight Thread DLM-R DR DCP / DCPZ to the highest quality Positionable SAF Male Run Tee Reducing Union Cross **Bulkhead Adapter** Reducing Port Connector Calibration Fitting Male Elbow DTRM-N DLS-UP **DPCM** DK-LOK® Hose Fittings Positionable 45° SAE Reducing Union Tee Male Run Tee Male Adapter Dielectric Fitting Male Elbow **DK-LOK® Flanges** DTRM-R DAM-N **DLBS-UP** DEU **Hose Adapter Fittings** Stainless Steel and Brass DK-LOK® Flanges 1/8" - 1" Hoses Male Branch Tee Male Adapter Male Run Tee Sanitary Fitting DTRS-UP **DSFC** DTBM-N, -R Male Branch Tee Male Adapter Flange Connector Male Branch Tee Chromatography Fitting **Push-On Hose Fitting** DTBS-UP Stainless Steel DTBM-N • 1/4" - 1" Push-On Hoses Male Branch Tee Male Adapter ISO Parallel Thread Pre-Swaging Tool DTBM-R DAM-U **DLM-GP** K Series JIC Tube Fittings **Installation Instructions Tube to Tube Union Tube to Straight Thread Swivel Fittings** C.) DK-LOK® Installation for High Pressure **Tube to Male Pipe** A.) Read First or High Safety Applications This instruction applies to DK-LOK® Tube Fittings as well as DK-LOK® Do not force the tubing into the fitting when it does not go in Male Connector Male Connector Male Connector Z Series Tube Fittings. smoothly. It may be a deformed oval. 1. Insert tubing on the DK-LOK® tube fitting until the tubing end KU **KMC KMC-GO KSMC** bottoms on the shoulder of the fitting body. DK-LOK® is supplied finger-tight and ready for immediate use. 2. Wrench-tighten the nut until the tubing does not rotate by hand Therefore fitting disassembly is not necessary for installation. or moves axially in the fitting. O-Seal UNF Union Elbow UNF Male Connector Male Elbow Male Connector 3. Scribe the nut at the 6 o'clock position KLM **KMCS-U** KSMCS-U B.) Tube-end Preparation 4. Wrench-tighten the nut to the 9 o'clock position, holding the body with a backup wrench. Swivel Female Connector O-Seal UNF Only a 3/4 turn to the 3 o'clock position is required for 1/16", 1/8", Union Tee Male Elbow Male Run Tee

Prior to installation, make sure to have the tube-end cut 90 degrees, then remove any burrs from the inside and outside of the tube ends. Use a proper tube cutter and maintain a sharp cutting wheel on it. Step 1.) Insert the tubing into the DK-LOK® tube fitting until the tubing end bottoms on the shoulder of the fitting body. Make sure the nut is



Step 2.) Scribe the nut at the 6 o'clock position and wrench-tighten the nut 1+1/4 turns to the 9 o'clock position, holding the body with a backup wrench. Tighten the nut 3/4 turn to the 3 o'clock position for 1/16", 1/8", and 3/16" - 2, 3, and 4 mm Tube Fittings.



and 3/16" – 2, 3, and 4 mm Tube Fittings. D.) Inspection of Gaugeable DK-LOK® Fitting

DK-LOK® Tube Fittings are gaugeable. This allows the installer to inspect that the make-up distance is sufficiently pulled-up on initial assembly. Refer to page 77 for Gap Gauge Operation Instructions. DK-LOK® Gap Gauge is applicable to those DK-LOK® fittings made out of SS316, Carbon Steel, Brass, and Exotic Alloy materials.

E.) Re-Assembly Instructions

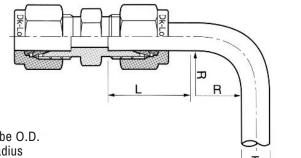
Initially Pulled-up

DK-LOK® can be used many times. Prior to re-assembly, ensure that the components are clean and free of defects. 1. Insert the ferrules swaged tubing into the body until the front

2. Hand-tighten the nut. 3. Wrench-tighten the nut to the previously pulled-up position. At this point, a sharp rise in torque is felt. 4. Tighten slowly with a wrench.

F.) Tube Handling During Installation

In case the tube bend is too close to a fitting, the bend section shall enter the fitting. This may not allow the tube to be bottomed in the fitting, resulting in leaks. Keep the proper straight length of a tube, as shown in the tables below. Do not bend a tube in the fitting. Use the tube bender prior to installation onto the fitting.



Fractional Tube (inches)			Metric Tube (mm)		
T	L		Т	L	
1/16	1/2		3	19	
1/8	23 / 32		6	21	
3 / 16	3 / 4		8	23	
1/4	13 / 16		10	25	
5 / 16	7/8		12	31	
3/8	15 / 16		14	32	
1/2	1+3/16		15	32	
5/8	1+1/4	1+1/4		32	
3 / 4	1+1/4		18	32	
7/8	1+5/16		20	34	
1	1+1/2		22	34	
1+1/4	2		25	40	
1+1/2	2 + 13 / 32		28	46	
2	3+1/4		30	50	
			32	54	
			38	63	
			50	80	

GCG

GCGR

GJU

GPA

Elbow

GLS

Street Elbow

Union Ball Joint

ISO Parallel Copper

GASKET DGC

Hollow Hex Plug

Hollow Hex Plug

Snubber Fitting

Hex Reducing Coupling

Instrumentation	on Pipe and '	Weld Fittings				
Thread Fittings		Thread Fittings (cont	.)	Weld Fittings		
Close Nipple GNC	Green	Reducing Street Elbow GLSR		Union GUSW	Green	
Hex Nipple GNH	O 444	Male Elbow GLM		Union Elbow GLSW		
Hex Reducing Nipple GNR		Tee GT		Union Tee GTSW	OR OR	
Hex Nipple GNH-R	D com	Run Tee GTR		Male Connector GCMSW	(100) (100)	
Hex Nipple GNH-G		Branch Tee GTB		Female Connector GCFSW	Green	
Hex Long Nipple GNL		Male Tee GTM		Male Elbow GLMSW		
Adapter GAAMF	Dress .	Cross GX		Female Elbow GLFSW		
Reducing Adapter GABMF		10K Thread Fittings		Pipe to Tube Socket Weld GUWSW	U-G-G-G-G-G-G-G-G-G-G-G-G-G-G-G-G-G-G-G	
Adapter GACMF	and the state of t	Elbow GL-10K	OS OS	Tube to Tube Socket Weld GUTWSW	0, eeu	
Adapter GADMF		Tee GT-10K				
Reducing Hex Bushing GHB	Сен	Cross GX-10K				
Pipe Cap GC	Bren j	Hex Nipple GNH-10K	Day			
Pipe Plug GP	in the state of th	Hex Coupling GCG-10K	(Drees)			
Hex Coupling	Green)	Male Adapter	east of			

GAAMF-10K

Reducing Adapter

Reducing Adapter

Thread Fittings for Over 1"

GAMF-10K

GL-6K

GT-6K

GX-6K

Hex Nipple

GNH-6K

Hex Coupling

GCG-6K

GABMF-10K

FITTING & **ADAPTER PRODUCTS**

DKLOKUSA.COM



KTRM

Male Branch Tee

45° Male Elbow

Tube to Female Pipe

Bulkhead Female Connector

Female Connector

Female Elbow

Female Run Tee

Female Branch Tee

KTRF

KTBF

KLBM

Union Cross

Bulkhead Union

KBUW

Weld Bulkhead Union

Bulkhead Elbow Union

Fitting Port Reducer

Tube Port to Tube Port



KLS-UP

Male Elbow

KLBS-UP

Branch Tee

KTBS-UP

O-Seal UNF Run Tee

KTRS-UP

Cap and Plug

Cap for Tube End

Plug for Fitting Port

O-Seal 45° UNF







KSCF

Swivel Elbow

Swivel Run Tee

KSRT

KSBT

KN

Sleeve

Bulkhead Lok Nut

Branch Tee

Spare Parts

































